

REQUEST FOR COUNCIL ACTION

SUBJECT: Discussion and possible action regarding weir at approximately 7000 South and 2700 West.

SUMMARY: Mr. Don Carlson, a longtime resident of West Jordan has experienced a decrease in water available through the irrigation system. Research by City Staff indicated the reduction in flow results from road and sidewalk construction completed roughly 23 years ago. In May 2012 Staff indicated the project to correct the issues would occur in Fall of 2012 or Spring of 2013. In Spring 2014 Staff has indicated a need for Council direction to allocate funding for the project to correct the problem.

FISCAL IMPACT:

In May 2014 the cost of the project was estimated at \$35,000.

POSSIBLE ACTIONS:

Direct Staff to return to Council with a recommendation for a funding source from the current fiscal year budget and escalate the priority of the project.

OVERVIEW

On March 6, 2012 Mr. Carlson initiated conversation with Councilmember McConnehey regarding the lack of water his property received from the canal in comparison to the amount of water received in prior years.

After investigation by City Staff, it was concluded that the reduced water flow was caused by a city Safe Sidewalk project undertaken around 1993. In May 2012 the determination was made that a project would be initiated to correct the issues and construction would occur in Fall of 2012 or Spring of 2013.

In October 2012 Staff indicated a lack of certainty that a new weir would correct the problem and stated plans to further research the issue.

In March 2014 the issue resurfaced and Staff indicated the project was on hold pending adequate funding and also indicated that the project was ranked last (30th) on the list of projects.

This Request for Council Action is to direct Staff to identify funding from the current year's budget and escalate the priority, thus remedying the problem caused by another city project roughly 21 years ago.

EXCERPTS FROM RECOMMENDED IMPROVEMENT LIST

File Name: "Table ES-4 Updated June 2011 Recommended_Improvements with Jan 2014 updates - new.xls"

Worksheet Name: "Table ES-4 (Copy of Table 7-3)"

Emailed to Councilmember McConnehey by David Murphy on 5/7/2014

Project Name	Location	Existing Facility	Recommended Improvement	Design Flow ⁽²⁾ (3) (cfs)	Estimated Cost	Category
2310 W 7000 S	new 18 inch pipeline - subdivision drainage	none	Install 18" RCP	6-10 cfs ?	\$ 135,000	WJC
4950 W 7800 S	new 24 inch pipeline - subdivision drainage	none	Install 24" RCP	15-30 cfs ?	\$ 200,000	WJC
2200 W 7000 S	Irrigation and Storm Drain retrofit	12 - 15 inch pipe	Install 24" RCP	6-10 cfs ?	\$ 150,000	WJC
7055 S 1100 W	new SD outfall for existing subdivision	none	Install 24" RCP	10-15 cfs ?	\$ 250,000	WJC
Riverside Elementary Drainage	new SD outfall for existing subdivision	none	Install 24" RCP	6-10 cfs ?	\$ 200,000	WJC
Don Carlson Irrigation problem	pipe existing ditch -18-inch	ditch	Install 18" RCP	3-4 cfs	\$ 35,000	WJC
BH Safe Sidewalk Project	pipe existing ditch -18-inch	ditch	Install 18" RCP	3-4 cfs	\$ 200,000	WJC
Slip line 24-30 inch SD on 1000 West and 7800 South	slip line existing pipe - 18 to 24 to 30 inch	18-30 inch CMP	Line existing pipes	10 - 40 cfs	\$ 1,450,000	WJC
O-Reilly Parking lot SD	holdover from 7800 South Phase 3 - 15 inch pipe	drainage boxes only	Install 15" RCP	1-3 cfs	\$ 45,000	WJC
Axel Park & Leo Park Waterway removals	new 18 inch pipe- resurface roadways	waterways	Install 18 inch pipe	0-5 cfs	\$ 150,000	WJC
Funding for North Jordan Canal Study	Slope stability study and remediation - Bateman Farms Area	ditches, pipe, canal improvements	Study and remediation effort for canal	unknown	\$ 100,000	WJC
					\$ 2,915,000	

EXCERPTS FROM EMAIL HISTORY

From Chris McConnehey
To Rick Davis and David Murphy
Wednesday, March 07, 2012 1:00 PM

Rick -

I received a voice mail on Tuesday from resident Don Carlson stating he had concerns about the canal. His phone number is [redacted], address is [redacted]. I assumed since his concern sounded restricted to the canal he would only need the phone number for the canal company so I tried to get a contact prior to calling back. Turns out my assumption was wrong and this will likely require staff involvement, so I wanted to direct this email to you.

David -

Since the Mr. Carlson indicated he has spoken with you about this I wanted to make sure you remained in the loop.

I returned his message to find his address and ask a few question.

When I returned Mr. Carlson's message I learned his concern is the amount of water he received from the canal. He stated that 10 or so years ago the weir supplying his neighborhood was locked in a position that was not completely open but he received plenty of water. Today there is no lock and in a fully open position the canal only supplies about 2/3rd's of the amount it used to.

He stated that he has been trying to figure out for a few years why the water supply diminished. He has been in touch with the canal company as well as Dave Murphy. As he's researched the issue, Mr. Carlson believes the issue was caused when 70th South was widened and a new weir was installed at 7000 South and approximately 2700 West.

He is requesting the city investigate to see if his understanding is accurate. If the cause for loss of water is indeed the weir he is requesting the city take necessary measures to correct the issue.

I let him know that I would bring this to the attention of our City Manager to figure out the best way to proceed.

Please let me know how you'd like to move forward.

Thanks,
Chris

From: Wendell Rigby
Sent: Tuesday, March 13, 2012 12:57 PM
To: Chris McConnehey
Cc: Rick Davis; Jeff Robinson; David Murphy; Maureen M. Casper; Marlene Vigil; Nate Nelson; Arlene Farley; Roger Payne
Subject: RE: Canal Company Contact

I have called Mr. Carlson and let him know where we are at with his concerns - he was glad to hear we were working on the issue.

As to the status of the request - Dave Murphy has been investigating which City construction project could have been responsible for the change in the irrigation weir and ditch, but we have not been able to find a project as of yet which could have been responsible. Rather than just 10 years ago as is indicated below, we think the change may have been done in the late 1980's or early 1990's, 20 to 25 years ago. We are presently hunting for the project records which would indicate this change was or was not made by the City, but it having been done 20-25 years ago, we are having a hard time finding the records which would indicate the City is responsible.

We have also been out and surveyed a portion of the ditch which indicates the ditch is constructed incorrectly, which would affect the flow out of the weir and along the ditch.

Mr. Carlson indicated that a subdivision to the north has also connected onto the weir and is taking water from it. He felt that a new weir would need to be constructed north of this subdivision to correct the problem. He suggested we talk to Nells Peterson, canal company president.

I updated Mr. Carlson on all of the above information we have thus far and indicated we have not been able to find evidence as of today that the problem they are experiencing was caused by a City project. I also indicated that we are continuing to work on the issue and I would call him back next week and give him an update of what we had found thus far.

We will continue to work on the research to see if we can find the project Mr. Carlson is referring to. Please let me know if you have any concerns or questions.

Wendell Rigby, P.E.
Director of Public Works
801-569-5118

From: David Murphy
Sent: Tuesday, March 20, 2012 8:08 AM
To: Wendell Rigby
Cc:
Subject: RE: Canal Company Contact

Wendell,

The project plans for the work seem to be related to a storm drain project related to a curb, gutter, and sidewalk project (2 bid schedules in the same project). We have also identified a bid book on microfisch that indicates a bid table for the storm drain work (the sidewalk being the second bid table), but with no copy of the plans for the storm drain work included. We have been unsuccessful to date in finding the actual storm drain plans, but I am willing to bet this is the particular plan set we have been looking for. We need to check the physical files in order to have any potential of finding a plan set. This is the current status.

Thanks,

David M.

From: Wendell Rigby
Sent: Tue 3/20/2012 9:47 AM
To: Chris McConnehey
Cc:
Subject: FW: Canal Company Contact

I called Mr. Carlson and let him know we were narrowing down our search for this project files - he appreciated my phone call. I indicated to him that we would get back to him in the next week with additional information. Please see Dave's email below for a current status of our search.

Thanks

Wendell Rigby, P.E.

From: Chris McConnehey
Sent: Friday, May 11, 2012 9:38 AM
To: Rick Davis; Wendell Rigby
Subject: FW: Wier @ 70th South & Utah & Salt Lake Canal

Any updates on this issue?

Thanks,
Chris

From: Wendell Rigby
Sent: Friday, May 11, 2012 10:12 AM
To: Chris McConnehey
Cc: David Murphy; donaldkcarlson@msn.com
Subject: RE: Wier @ 70th South & Utah & Salt Lake Canal

The short answer is that the City will construct a new weir for this ditch this fall or by next spring and it would be paid for by the City.

Dave will be working with the design consultant to design the weir and it will be built as part of the Constitution Park Storm Water Relief project once the water is out of the canal for this season. We have had a difficult time in researching the past history and drawings since it is so old (1993) - that's why it has taken a while to get the answer. We have not been able to find the exact drawings which changed the present weir configuration, but it appears the weir and ditch were affected by a City safe sidewalk project constructed in 1993.

Please let me know if you have any questions or concerns.

Wendell

From: Don Carlson [donaldkcarlson@msn.com]
Sent: Thursday, October 04, 2012 4:36 PM
To: Chris McConnehey
Subject: Weirs on Utah & Salt Lake Canal @ 70th South

Chris,

I have been unable to reach anyone in public works. They plan to install weirs in the canal this season but none of the information they have given me indicates the canal water level. Without that info no one can tell whether the weirs will provide sufficient water flow. The water is scheduled to go out next week and may have already been turned down.

Will you see if you can get someone to look into this.

Maybe I'm missing something, but if I am please show me.

Thanks
Don Carlson

From: Chris McConnehey
Sent: Friday, October 05, 2012 8:16 AM
To: Wendell Rigby; Rick Davis
Subject: FW: Weirs on Utah & Salt Lake Canal @ 70th South

Wendell,

Are there any updates on the weir correction request I could forward on to Don Carlson (see email below). This is an extension of the conversation we had with him in early Spring which was followed by some research that determined the issues with the weir were likely caused by road / sidewalk construction from 20+ years ago.

Please let me know how to respond to him.

Thanks,

Chris

From: Wendell Rigby
Sent: Friday, October 05, 2012 11:14 AM
To: Chris McConnehey
Cc: Rick Davis; David Murphy
Subject: RE: Weirs on Utah & Salt Lake Canal @ 70th South

We have contacted Don Carlson and given him updates since his original questions. We had determined that the City was responsible for the changes in his irrigation issues and Dave was working through a design to correct the issue which we passed along to Don. Don called last week and I am checking with Dave to see if he was able to contact him and answer his questions. Let me talk to Dave and I will get back with you early next week.

Thanks

Wendell Rigby

From: David Murphy
Sent: Monday, October 08, 2012 11:22 AM
To: Wendell Rigby
Cc: Greg Davenport; Nate Nelson; Marlene Vigil
Subject: RE: Weirs on Utah & Salt Lake Canal @ 70th South

Wendell,

Greg and I went out this morning to check several design issues. As we were investigating the entire alignment, several issues came up. First, we need to check the irrigation piping from the turn location to Don Carlson's home (please see attached photo). From this turn location, it appears that full flow is available (by the high water mark near the slide gate). We also witnessed a piping failure at the turn that was circumventing the pipe. There was no way to estimate the amount of reduction in flow this failure would cause under a full flow situation, but it could be substantial. After this observation, we checked as much of the downstream pipe that we could. We could not see much without a camera.

The second issue is to check the downstream piping to verify the system integrity. With the piping failure already observed, it raises the question about the rest of the system. There looks to be ability to camera the existing line to ensure it has not failed. Can we use the City crews to camera this line? We have mapping that will indicate start and stop locations.

Last of all, in speaking with another resident just downstream of the turnout for Mr. Carlson, he was satisfied with the amount of flow coming to him through the same ditch. He did mention an issue regarding a 4 inch pipe placed into the irrigation pipe by the Villas after the ditch was piped. This is the first I have heard of this issue, so we should check with Nate if he is aware of this concern. The neighbor said Mr. Carlson was aware of this, and had discussed the issue with the City, so it may already be resolved.

We will be taking three more shots today for high water levels in the canal to determine if a new weir will be possible. However, with what was observed in the picture, I am not confident a new weir is the answer. The neighbor indicated that in his opinion, simple cleaning of the ditch would suffice. With a little more investigation, we should be able to confirm an answer. I will contact Mr. Carlson and bring him up to date.

Thanks,

David M. Murphy, P.E.

Note the roughly 17 month delay between emails

From: Chris McConnehey
Sent: Thursday, March 27, 2014 12:33 PM

To: Wendell Rigby
Cc: Rick Davis; David Murphy; Bryce Haderlie; donaldkcarlson@msn.com
Subject: RE: Weirs on Utah & Salt Lake Canal @ 70th South

Wendell and Dave,

I just wanted to follow up on this email thread. I received a phone call from Mr. Carlson today (I've included him on this email) and he refreshed my memory about this issue regarding the lack of water in the canal. If I recall correctly, Staff went through all the old drawings and nearest we could figure the problem was caused when 70th South was widened years back. The estimate for the correction was approximately \$80,000 and was going to be lumped in with other projects.

Here is where my memory is lacking. Was this project going to be included with the 70th South Storm Drain upgrades that were mentioned last night (the \$5m project), or was it another project this was going to be included with? Mr. Carlson suggested to me that he was advised the project was pushed back when Council refused to fund it, so I was hoping for clarification as to when this was targeted for completion and which larger project this was going to be worked in with.

Thanks for the update and clarifications.

Regards,
Chris

From: Wendell Rigby
Sent: Thursday, March 27, 2014 2:37 PM
To: Chris McConnehey
Cc: Rick Davis; David Murphy; Bryce Haderlie; Steve Glain
Subject: RE: Weirs on Utah & Salt Lake Canal @ 70th South

Mr. Carlson's project was one of the projects we indicated last night we needed funding for as part of increase in the stormwater fee. It was not part of the 7000 South (\$5M) project but one of a number of existing deficiencies we have which we don't have funding for.

Mr. Carlson called me this morning and I indicated that the funding for his project was part of the discussion we held last night with the Council and that the Council had postponed a decision on how to move forward. I indicated to him that as of right now we did not have funding for his project or the other projects where we have storm drainage problems. I did not advise him that his project was pushed back when Council refused to fund it - I indicated a decision had been postponed for now. He was concerned that we would now not be able to address the problem this year and that he would be calling his Councilmember. I did not suggest he call his Councilmember. When he suggested he was going to call his Councilmember, initially he did not know who his Councilmember was but later in the conversation he mentioned your name.

As I indicated above, we do not have funding for Mr. Carlson's project at the current time and it was not going to be included in a larger project.

I should also mention that an additional project on the deficiency list is Mr. Joe Johnson's long-term fix for the storm water concern he has in his neighborhood. We have completed a temporary fix, but the long-term fix has no funding at this time.

Dave and I talked about the storm water deficiency list this morning and we will be working on a prioritization of the list which we would like to bring back to Council so you can see which projects are on the list, what their priority is, what their costs are. We hope to have that work done in the next couple of weeks.

I hope this answers your questions. Please let me know if you have any questions.

Wendell

From: Chris McConnehey

Sent: Thursday, March 27, 2014 2:44 PM
To: Wendell Rigby
Cc: Rick Davis; David Murphy; Bryce Haderlie; Steve Glain
Subject: RE: Weirs on Utah & Salt Lake Canal @ 70th South

Wendell,

Thank you for the response. I'm looking forward to seeing the list. When it is provided could you indicate which project incorporates the improvements that will fix his issue? I'm not interested in changing priorities, but it helps me to see his issue in context with everything else going on.

Thanks again,
Chris

From: Chris McConnehey
Sent: Wednesday, May 07, 2014 11:09 AM
To: Wendell Rigby
Cc: Rick Davis; Bryce Haderlie
Subject: FW: Weirs on Utah & Salt Lake Canal @ 70th South

Hey Wendell,

As anyone been able to get in touch with Mr. Carlson? I've received a couple additional email from him inquiring on the status and I was hoping someone from your group could reach out to him.

Thanks,
Chris

From: Wendell Rigby
Sent: Wednesday, May 07, 2014 1:35 PM
To: Chris McConnehey
Cc: Rick Davis; Bryce Haderlie; David Murphy
Subject: RE: Weirs on Utah & Salt Lake Canal @ 70th South

Yes, I called him the day after our last Council meeting where we discussed the utility fees. I indicated to him that at the present time we did not have funding for the project he has requested that we construct to address the secondary irrigation system.

At the present time all of our storm water funds for existing projects are allocated for higher priority projects. Without an increase in revenue, such projects cannot be constructed.

Please let me know if you have any other questions.

Wendell

From: Chris McConnehey
Sent: Wednesday, May 07, 2014 4:31 PM
To: Wendell Rigby
Cc: Rick Davis; Bryce Haderlie; David Murphy
Subject: RE: Weirs on Utah & Salt Lake Canal @ 70th South

In another email thread you indicated that when the prioritized deficiency list was provided you could call out the project that would fix his issue. Has this list already been provided and did I overlook it? Or is that something that has yet to be provided?

Thanks again,
Chris

From: Wendell Rigby
Sent: Wednesday, May 07, 2014 7:34 PM
To: Chris McConnehey
Subject: RE: Weirs on Utah & Salt Lake Canal @ 70th South

Dave was working on the Strategic Plan late last week and earlier this week which was to include this list. As I understood it, the Strategic Plan was to be discussed this evening as part of the Council meeting discussion on budget.

Wendell

From: David Murphy
Sent: Thursday, May 08, 2014 8:35 AM
To: Chris McConnehey; Wendell Rigby
Cc: Rick Davis; Bryce Haderlie
Subject: RE: Weirs on Utah & Salt Lake Canal @ 70th South

Wendell and Chris,

I have complete the prioritization for storm drain projects, but I have not released it yet because other departments have not had a chance to look it over and comment on the way I ranked the projects. I would like to give all interested parties time to make comments on the numbers. I have attached the Capital Facility Plan to this email for your review as a first look. You will note that the project being discussed here is down on the "new" area of the spreadsheet at the bottom. It is listed as the "Don Carlson Irrigation Problem" and ranks a 30 currently, the lowest number on the list.

Please let me know your thoughts.

Thanks,

David M. Murphy, M.S., P.E.

From: Don Carlson [donaldkcarlson@msn.com]
Sent: Monday, June 16, 2014 7:07 PM
To: Chris McConnehey
Subject: Re: Weirs on Utah & Salt Lake Canal @ 70th South

Chris

Just to keep you up to date, I met with the mayor two weeks ago. I was pleased that he would take the time to meet me at the canal and acquaint himself with the problem. He was going to check with Wendell Rigby to see where they stood and either he or someone else would get back to me. I haven't heard from him yet. I don't have an e-mail address for him but I guess I could get one from his secretary.

Regards,
Don

From: Don Carlson [donaldkcarlson@msn.com]
Sent: Monday, July 07, 2014 3:21 PM
To: Chris McConnehey
Subject: Re: Weirs on Utah & Salt Lake Canal @ 70th South

Chris,
Wendell Rigby called me about two weeks ago at the request of the mayor. He reviewed what we have talked about before - that money for the ditch was included in the multimillion dollar storm drain system which is being planned. And because the storm sewer project was set back, the ditch project was postponed. Now it remains to get the ditch project separated and scheduled on its own. That's the easy part. The more difficult activity is to find funding for the ditch project. The City Council is going to have to approve the budget for this. Wendell felt it would be more effective if you would arrange to have it

placed it on the agenda. If I can do something, please let me know. It has been some time since we had the meeting where my constituents were told this was a done deal. I would like to see completed this fall or certainly next spring. Let me know if I can help.

Regards, Don